

AMENDMENTS TO THE CLAIMS:

This listing of the claims will replace all prior listings and versions of claims in the application.

Claims 1-45 (canceled)

Claim 46 (original) A kit for performing an invasive cleavage assay comprising a probe oligonucleotide and an invasive oligonucleotide configured to form an invasive cleavage structure in the presence of an RNA target nucleic acid.

Claim 47 (presently amended) The kit of Claim 46, further comprising a polypeptide encoded by the a nucleic acid shown in selected from the group consisting of SEQ ID NO: s:2675-2709, 2711, 2713, 2715, 2716, 2718, 2720, 2721, 2723, 2725, 2727, 2729, 2731, 2733, 2735, 2737, 2739, 2741, 2743-2745, 2747, 2749, 2751, 2753, 2755, 2757, 2759, 2761, 2763, 2764, 2765, 2767, 2769, 2771, 2773, 2775, 2777, 2779, 2784, 2786, 2788, 2790, 2792, 2794, 2796, 2798, 2800, 2802, 2804, 2806, 2808, 2810, 2812, 2814, 2816, 2818, 2820, 2822, 2824, 2826, 2828, 2830, 2832, 2834, and 2836-2856.

Claim 48 (presently amended) The kit of Claim 47, wherein said polypeptide is shown in selected from the group consisting of SEQ ID NO:s:2641-2674, 2710, 2712, 2714, 2717, 2719, 2722, 2724, 2726, 2728, 2730, 2732, 2734, 2736, 2738, 2740, 2742, 2744, 2746, 2748, 2750, 2752, 2754, 2756, 2758, 2760, 2762, 2766, 2768, 2770, 2772, 2774, 2776, 2778, 2780, 2781, 2782, 2783, 2785, 2787, 2789, 2791, 2793, 2795, 2797, 2799, 2801, 2803, 2805, 2807, 2809, 2811, 2813, 2815, 2817, 2819, 2821, 2823, 2825, 2827, 2829, 2831, 2833, 2835, and 2837-2857.

Claim 49 (original) The kit of Claim 46, wherein said kit comprises an oligonucleotide comprising a sequence selected from the group consisting of SEQ ID NO:2837-4004.

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Claim 50 (original) The kit of Claim 47, wherein said kit comprises an oligonucleotide comprising a sequence selected from the group consisting of SEQ ID NO:169-211 and 619-706, 709-2640 and 2837-4004.

Claims 51-57 (canceled)